

**CITY OF SEGUIN
WALMART WATER MAIN EXTENSION PROJECT
FNI PROJECT NO. SEG14637
CITY OF SEGUIN PROJECT NO. TF-2016-18
ADDENDUM NO. 1
January 28, 2016**

00 91 13.01 ADDENDUM NO. 1

The following additions, deletions, modifications, or clarifications shall be made to the appropriate sections of the Contract Documents. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form.

BIDDING REQUIREMENTS:

A1-1 Section 00 21 13 "Instructions to Bidders"

Reference Page 5, Paragraph 1.18.

Modification: Modify the last sentence of the first paragraph as follows:

"A copy of the certified Form 1295 including the certification number generated by the state must be provided to the City of Seguin ~~before a contract can be executed with the Contractor's bid package.~~ **The governmental entity is the City of Seguin and the contract identification number is TF-2016-18.**"

A1-2 Section 00 42 23 "Bid Form"

Modification: Delete this Section and replace it with the Bid Form included with this Addendum. The revised form is to be attached to the Contract Documents and submitted with the Bid.

TECHNICAL SPECIFICATIONS:

A1-3 Section 00 73 00 "Supplementary Conditions"

Reference Page 15, Paragraph SC-13.03 Tests and Inspections

Modification: Delete the paragraph in its entirety and replaced as indicated below:

"A. Delete Paragraph 13.03.B entirely and insert the following in its place:

"B. Employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents. The Contractor is solely responsible for maintaining that the quality of Work is in accordance with the Contract Documents. The Contractor shall be responsible for the notification and scheduling required assuring that a certified technician from the testing laboratory is present during all sampling and testing procedures, including but not limited to in-place density testing of backfill, concrete compression tests and other testing required in the Contract Documents. The Contractor shall not proceed with construction work requiring such testing without the presence of the laboratory's certified technician. The Owner, at his option, may perform additional tests as quality monitoring. Quality

monitoring activities of the Owner and Engineer, or failure on the part of the Owner or Engineer to perform tests on constructed works, in no way relieves the Contractor of the obligation to perform Work and furnish materials conforming to the Contract Documents.

1 Contractor's Responsibilities:

- a. Control the quality of Work produced and verify that the Work performed meets the standards of quality established in the Contract Documents.
 - 1). Inspect and verify conformance of all materials furnished and Work performed, whether by the Contractor, its Subcontractors or its Suppliers.
 - 2). Provide and pay for the services of a testing laboratory approved by Owner to insure that products proposed for use fully comply with the Contract Documents.
 - 3). Perform tests as indicated in this and other Sections of the Specifications. Schedule the time and sequence of testing with the Owner and Engineer. Testing is to be observed by the Owner, Engineer, or designated representative.
 - 4). Promptly replace any defective materials and/or construction work incorporating defective materials or workmanship.
 - 5). Provide Certified Test Reports as required by the submittals Section. Reports are to indicate that materials and construction are in compliance with the Contract Documents.
- b. Assist the Engineer, Owner, and Owner's testing organization to perform quality monitoring activities.

2. Quality Monitoring Activities by the Owner:

Quality Monitoring activities of the Owner and Engineer through their own forces or through contracts with materials testing laboratories and survey crews are for the Owner's use in monitoring the results of the Contractor's Work and quality control activities, if deemed necessary by the Owner and Engineer. The Quality Monitoring activities of the Owner do not relieve the Contractor of its responsibility to provide testing in accordance with the requirements of the Contract Documents or to provide materials and construction work complying with the Contract Documents.

3. Submittals:

- a. Submittals shall be accordance with the submittals Section, and shall include:
 - 1). The name of the proposed primary and secondary testing laboratories along with documentation of qualifications, a list of tests that can be performed, and a list of the certified laboratory technicians and the licensed engineers who will be performing the sampling and testing for the Construction Work along with their certifications and licenses.
 - 2). Test reports per Paragraph 7, Test Reports, of this supplementary condition.

4. Standards:

- a. Provide a testing laboratory that complies with the ASTM (American Society of Testing Materials) and/or ACIL (American Council of Independent Laboratories) "Recommended Requirements for Independent Laboratory Qualifications", or other specified testing organizations.
- b. Perform tests listed in the Specifications.

5. Delivery and Storage:

Handle and protect test specimens of products and construction materials at the Site in accordance with ASTM or other applicable testing procedures.

6. Verification Testing:

- a. Provide verification testing when tests performed by the Owner indicate that materials or the results of construction activities are not in conformance with Contract Documents.
- b. Verification testing is to be provided at the Contractor's expense to verify products or constructed works are in compliance after corrections have been made.
- c. Tests must comply with recognized methods or with methods recommended by the Owner's testing laboratory and approved by the Engineer.

7. Test Reports:

- a. Test reports are to be prepared for all tests.
 - 1). Tests performed by testing laboratories may be submitted on their standard test report forms. These reports must include the following:
 - a). Name of the Owner, project title and number, equipment installer and general contractor.
 - b). Name of the laboratory, address, and telephone number.
 - c). Name and signature of the certified laboratory personnel performing the sampling and testing.
 - d). Date and time of sampling, inspection, and testing.
 - e). Date the report was issued.
 - f). Description of the test performed.
 - g). Weather conditions and temperature at time of test or sampling.
 - h). Location at the Site or structure where the test was taken.
 - i). Standard or test procedure used in making the test.
 - j). A description of the results of the test.
 - k). Statement of compliance or non-compliance with Contract Documents.
 - l). Interpretations of test results, if appropriate.

- b. Distribute copies of the test reports as indicated in Specification 01 33 00 "Submittal Procedures."
- 8. Non-Conforming Work:
 - a. Contractor shall promptly correct any Work that is not in compliance with the Contract Documents and shall immediately notify the Owner when the corrective work will be performed.
 - b. Payment for non-conforming Work shall be withheld until such Work is corrected or replaced with Work complying with the Contract Documents."

Section 01 35 00 "Special Procedures"

A1-4 Reference Page 1, Paragraph 1.02.A.

Modification: Modify paragraph 1.02.A. as follows:

~~"A. Water main from IH 10 to Fleming Drive shall be substantially complete, including all tie-ins to existing mains prior to June 31, 2017.~~ Water transmission main on N. Vaughn Avenue from San Antonio Street to W. Kingsbury Street shall be complete, including all work within the ROW, paving and site rehabilitation prior to May 31, 2016. Liquidated damages set at \$500/day will be assessed if Work is not completed within the time indicated."

A1-5 Reference Page 1, Paragraph 1.02.F.

Addition: Add the following paragraph:

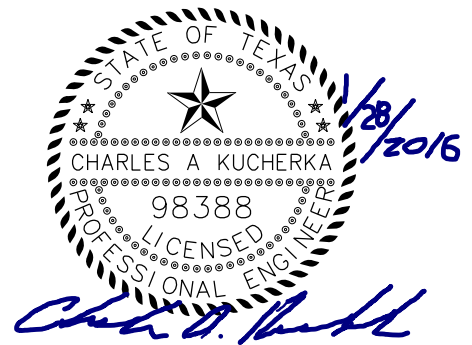
"F. The water line easement within the West Side Baptist Church property at the corner of N. Vaughn Ave. and W. Kingsbury Street is being negotiated. Contractor will not be able to complete work within that property easement until it is procured and the City provides written notice to the Contractor. Contractor is responsible for scheduling work and constructing the project around these terms."

DRAWINGS:

A1-6 REPLACE THE FOLLOWING SHEETS

Replace Sheet	With Sheet
W3, W7, W8, W9, W10, W17, W19, DT-1, DT-3	W3, W7, W8, W9, W10, W17, W19, DT-1, DT-3

END OF ADDENDUM NO. 1



FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

00 42 23.01 "Bid Form Exhibit A"

WALMART WATER MAIN EXTENSION BASE BID ITEMS					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
1	For Mobilization and Demobilization described in the Contract Documents for the lump sum (Maximum 5% of total base bid amount) of:	LS	1	\$ _____	\$ _____
2	Preparation of Right-of-Way, including, but not limited to removing obstructions within the project limits, including trees, brush, miscellaneous debris, etc., removal and replacement of fences, clearing, and all other effort required to prepare the construction area for the work, not included in other bid items, complete in place.	STA	79	\$ _____	\$ _____
3	Design, install, maintain, and remove Storm Water Pollution Prevention Plan and structures, as required for construction of the project, complete as specified and indicated in the plans.	LS	1	\$ _____	\$ _____
4	Design, install, maintain, and remove Traffic Control Plan and devices required to construct the project, complete as specified and indicated in the plans.	LS	1	\$ _____	\$ _____
5	For development, design, and implementation of a trench safety system as required by the Occupational Safety and Health Administration and the assumption of responsibility for said system, including all required trench safety for construction of water mains and appurtenant structures complete as specified and indicated in the plans. (*Contractor shall insert quantity of trench safety required for the project. Contractor shall only be paid for trench safety installed.)	LF	_____* (7,855 LF Minimum)	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
6	Furnish, install, and maintain hydromulch seeding for all disturbed areas required for construction of the project, complete as specified and shown on the plans.	SY	9,500	\$ _____	\$ _____
7	Furnish and install by open cut, 16-inch diameter AWWA C905 PVC, DR-18 water main including excavation, bedding, backfill, tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	5,503	\$ _____	\$ _____
8	Remove existing 8-inch water main along Lawson St. and furnish and install 16-inch diameter AWWA C905 PVC, DR-18 water main in its place, including excavation, bedding, backfill, tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	658	\$ _____	\$ _____
9	Furnish and install by open cut, 12-inch diameter AWWA C900 PVC, DR-14 water main including excavation, bedding, backfill, tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	786	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
10	Furnish and install by open cut, 8-inch diameter AWWA C900 PVC, DR-14 transmission main including excavation, bedding, backfill (including concrete encasement and CLSM), tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	740	\$ _____	\$ _____
11	Furnish and install by open cut, 6-inch diameter AWWA C900 PVC, DR-14 water main including excavation, bedding, backfill, tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	140	\$ _____	\$ _____
12	Furnish and install by open cut, 4-inch diameter AWWA C900 PVC, DR-14 water main including excavation, bedding, backfill, tracer wire, joint restraints, thrust blocks, dewatering, testing per SC-13.03, and all other appurtenant work not specifically included in other bid items, complete as specified and indicated in the plans.	LF	28	\$ _____	\$ _____
13	Furnish and install by open cut, 24-inch diameter steel casing pipe with 16-inch AWWA C905 PVC, DR-18 restrained carrier pipe including spacers, end seals, pressure grouting, dewatering, tracer wire, testing per SC-13.03, and all other appurtenant work complete as specified and indicated in the plans.	LF	83	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
14	Furnish and install by jack and bore, 24-inch diameter steel casing pipe with 16-inch AWWA C905 PVC, DR-18 restrained carrier pipe including spacers, end seals, pressure grouting, dewatering, tracer wire, testing per SC-13.03, and all other appurtenant work complete as specified and indicated in the plans.	LF	227	\$ _____	\$ _____
15	Furnish and install by jack and bore, 20-inch diameter steel casing pipe with 12-inch AWWA C900 PVC, DR-14 restrained carrier pipe including spacers, end seals, pressure grouting, dewatering, tracer wire, testing per SC-13.03, and all other appurtenant work complete as specified and indicated in the plans.	LF	140	\$ _____	\$ _____
16	Furnish and install by horizontal directional drilling or jack and bore , 8-inch AWWA C900 PVC, DR-14 restrained pipe including dewatering, tracer wire, and all other appurtenant work complete as specified and indicated in the plans.	LF	66	\$ _____	\$ _____
17	Furnish and install 16-inch diameter tie-ins to existing water lines, including tapping sleeves and valves, couplings, dewatering, closure fittings and all other appurtenant work, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
18	Furnish and install 12-inch diameter tie-in to existing water lines, including tapping sleeves and valves, couplings, dewatering, closure fittings and all other appurtenant work, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
19	Furnish and install 8-inch diameter tie-ins to existing water lines, including tapping sleeves and valves, couplings, dewatering, closure fittings and all other appurtenant work, complete as specified and indicated in the plans.	EA	8	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
20	Furnish and install 6-inch diameter tie-ins to existing water lines, including tapping sleeves and valves, couplings, dewatering, closure fittings and all other appurtenant work, complete as specified and indicated in the plans.	EA	4	\$ _____	\$ _____
21	Furnish and install 16-inch gate valve, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	13	\$ _____	\$ _____
22	Furnish and install 12-inch gate valve on pressurized water line, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
23	Furnish and install 12-inch gate valve, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	3	\$ _____	\$ _____
24	Furnish and install 8-inch gate valve, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	8	\$ _____	\$ _____
25	Furnish and install 6-inch gate valve, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	3	\$ _____	\$ _____
26	Furnish and install 4-inch gate valve, valve box, and all other appurtenant work, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
27	Furnish and install ductile iron fittings, all diameters and types, complete as specified and indicated in the plans.	TON	15	\$ _____	\$ _____
28	Furnish and install fire hydrant assembly, including ductile iron piping, gate valves and all other appurtenant work complete as specified and indicated in the plans.	EA	17	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

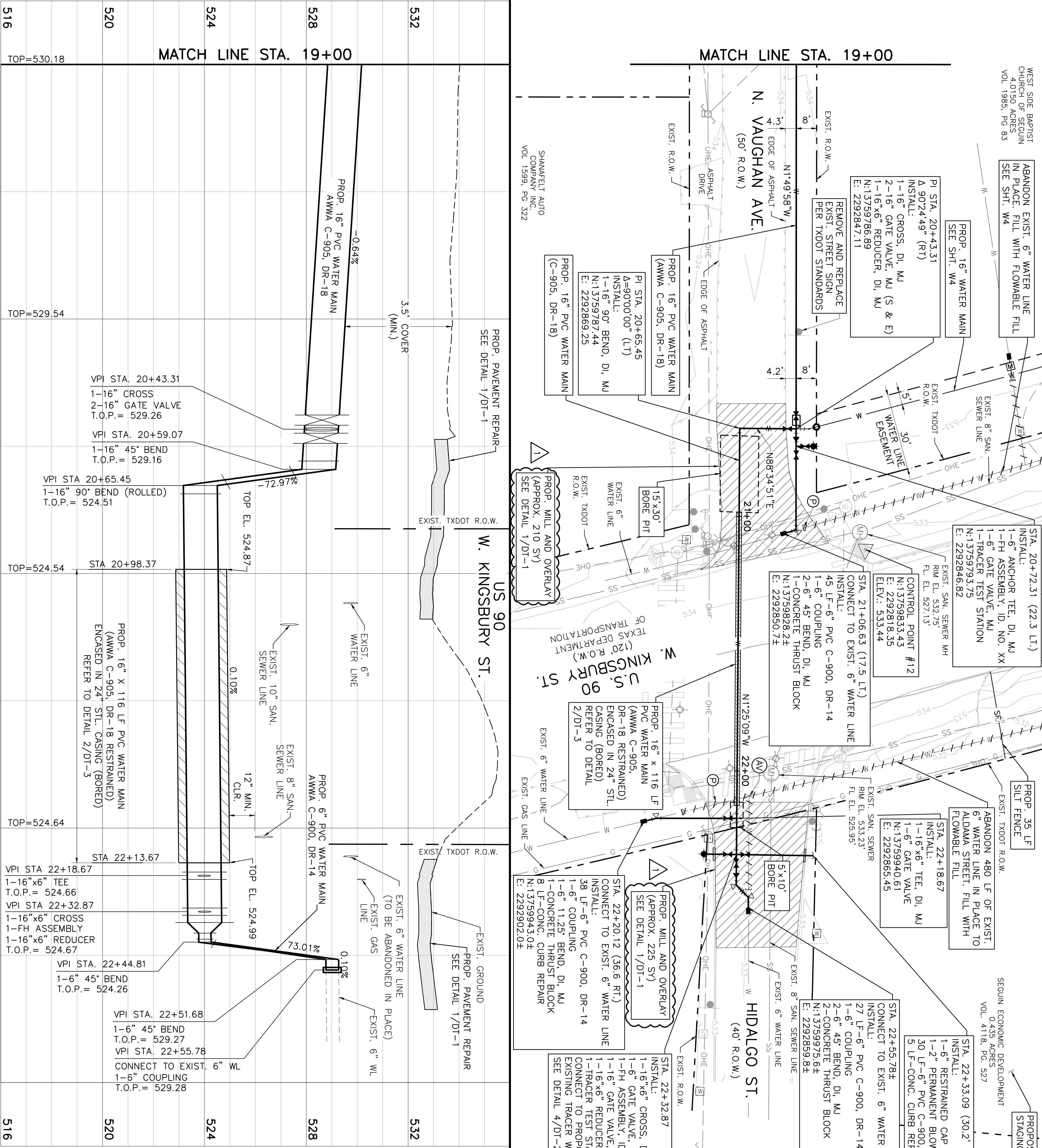
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
29	Furnish all material, labor, equipment, and appurtenances for removal of existing fire hydrant assembly, complete as specified and indicated in the plans.	EA	4	\$ _____	\$ _____
30	Furnish all material, labor, equipment, and appurtenances for connecting to existing fire hydrant assembly, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
31	Furnish and install 3/4-inch water services, all lengths, including testing per SC-13.03, complete as specified and indicated in the plans.	EA	1	\$ _____	\$ _____
32	Furnish all material, labor, equipment, and appurtenances for reconnecting existing water services, all diameters, complete as specified and indicated in the plans.	EA	6	\$ _____	\$ _____
33	Furnish and install tracer wire test stations, complete as specified and indicated in the plans.	EA	20	\$ _____	\$ _____
34	Furnish all material, labor, equipment, and appurtenances for hydrostatic testing and disinfection of water mains, complete and in place.	LF	8,371	\$ _____	\$ _____
35	Furnish and install 1.5-inch combination air release valve and vault, including all appurtenant work complete as specified and indicated in the plans.	EA	4	\$ _____	\$ _____
36	Furnish and install 2" permanent blow-off, complete in place as specified and indicated in the plans.	EA	2	\$ _____	\$ _____
37	Furnish and install utility markers, complete in place as specified and indicated in the plans.	EA	9	\$ _____	\$ _____

00 42 23.01 "Bid Form Exhibit A"

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Amount
38	Furnish all material, labor, equipment, and appurtenances for removal and replacement of existing concrete driveway, including testing per SC-13.03, complete as specified and indicated in the plans.	EA	2	\$ _____	\$ _____
39	Furnish all material, labor, equipment, and appurtenances for removal and replacement of existing concrete bikeway, including testing per SC-13.03, complete as specified and indicated in the plans.	LS	1	\$ _____	\$ _____
40	Furnish all material, labor, equipment, and appurtenances for removal and replacement of existing concrete curb, all types, complete as specified and indicated in the plans.	LF	41	\$ _____	\$ _____
41	Furnish all material, labor, equipment, and appurtenances for asphalt trench repair, including testing per SC-13.03, complete as specified and indicated in the plans.	SY	1,758	\$ _____	\$ _____
42	Furnish all material, labor, equipment, and appurtenances for abandoning existing 8-inch water lines and filling with flowable fill, including testing per SC-13.03, complete as specified and indicated in the plans.	LF	621	\$ _____	\$ _____
43	Furnish all material, labor, equipment, and appurtenances for abandoning existing 6-inch water lines and filling with flowable fill, including testing per SC-13.03, complete as specified and indicated in the plans.	LF	1,130	\$ _____	\$ _____
44	Furnish and install 18-inch diameter concrete rip-rap, complete as specified and indicated in the plans.	SY	580	\$ _____	\$ _____

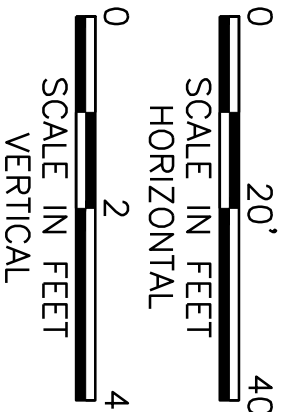
00 42 23.01 "Bid Form Exhibit A"

45	Provide an Asbestos Abatement Work Plan and dispose of all asbestos cement piping disturbed on the project in accordance with local, state and federal requirements, complete as specified and indicated in the plans.	LS	1	\$ _____	\$ _____
46	Replace existing loop detector per TxDOT standards, complete as specified and indicated in the plans.	EA	2	\$ _____	\$ _____
47	Mill and overlay streets, including disposal of removed materials, and all other appurtenant work, complete as specified and indicated in the plans.	SY	495	\$ _____	\$ _____
TOTAL BID ITEMS (ITEMS 1-47)					\$ _____

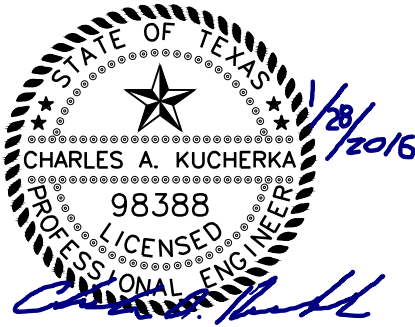


NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BORING OPERATIONS. REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS TO THE ENGINEER.
2. CONTRACTOR SHALL LOCATE BORE PITS AROUND EXISTING UTILITIES AND SUPPORT EXISTING UTILITIES AS REQUIRED TO CONSTRUCT THE BORE.
3. ALL WORK WITHIN THE TXDOT ROW SHALL BE CONSISTENT WITH THE REQUIREMENTS IN THE TXDOT UTILITY PERMIT.
4. SUPPORT AND PROTECT EXISTING POWER POLES WITHIN WORK LIMITS.
5. TXDOT SIGNAL DETECTION LOOPS EXIST WITHIN N. VAUGHAN AND HIDALGO ST. IF DISTURBED CONTRACTOR SHALL REPLACE LOOP WITHIN N. VAUGHAN AND HIDALGO STREET. (NO SPLICES WILL BE ALLOWED) SEE HISTORICAL DRAWINGS H-1 & H-2, AND REFERENCE TXDOT STANDARD SHTS. DT-9, DT-10 & DT-11 AND TXDOT STANDARD ITEM.
6. CONTRACTOR SHALL CONTACT CRAIG WILLIAMS (TXDOT) AT 210-615-5975 AT LEAST 72 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED THAT MAY DISTURB THE SIGNAL DETECTION LOOPS. CONTRACTOR SHALL ALSO COORDINATE THE TESTING OF ANY REPLACED DETECTION LOOPS WITH TXDOT.



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



FREESE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78202-6350
Phone - (210) 298-3800
Fax - (210) 298-3801
Web - www.freese.com

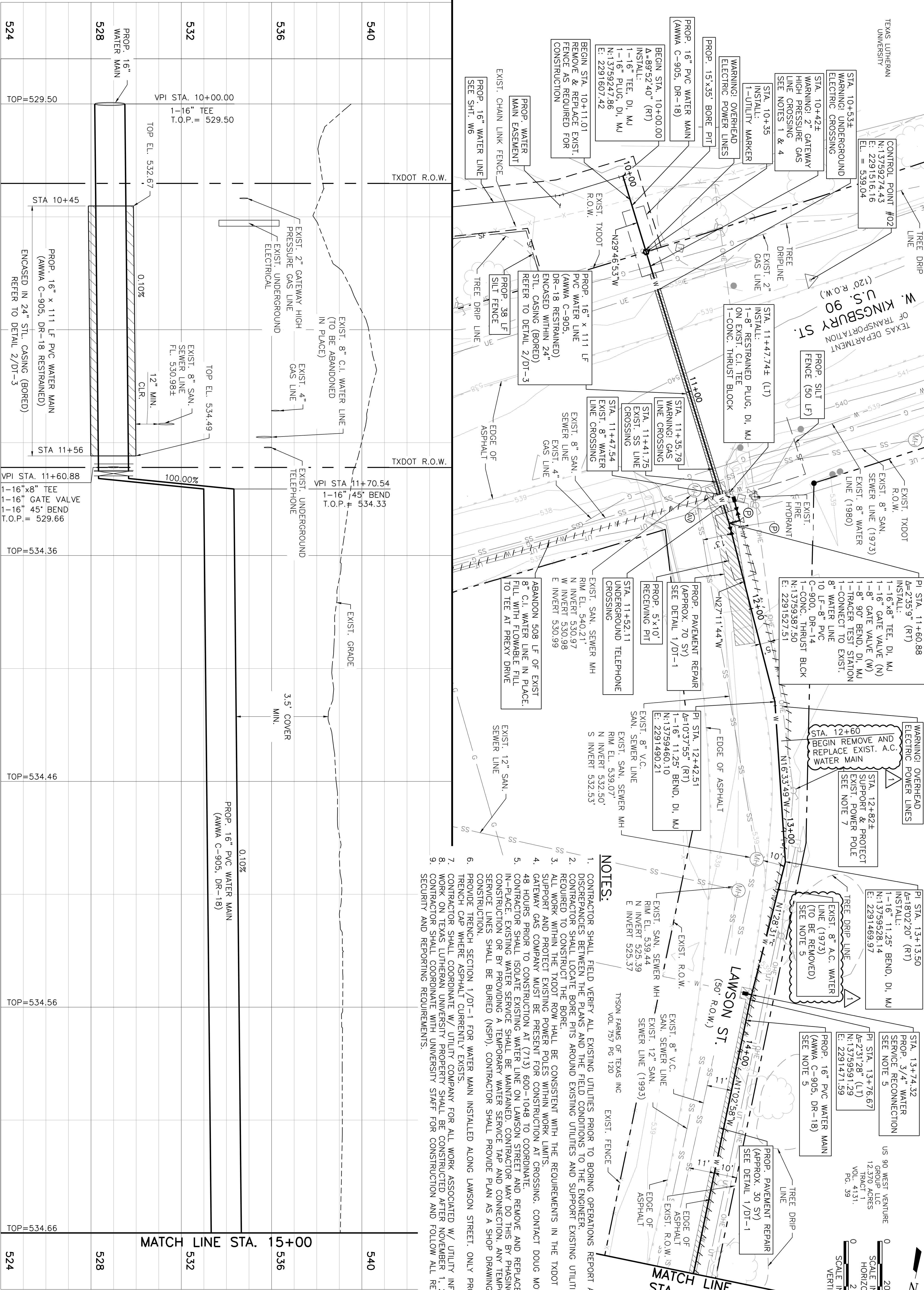
CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
CIVIL
N. VAUGHAN PLAN AND PROFILE
STA. 19+00 TO END

F&N JOB NO.	SEG14637
DATE	1/28/2016
DESIGNED	CAK
DRAWN	DDH
REVISION	
CHECKED	RGK
FILE NAME	VAUGHAN-WL-PL01.dwg

NO.	ISSUE
1	ADDENDUM NO. 1
0	VERIFY SCALE

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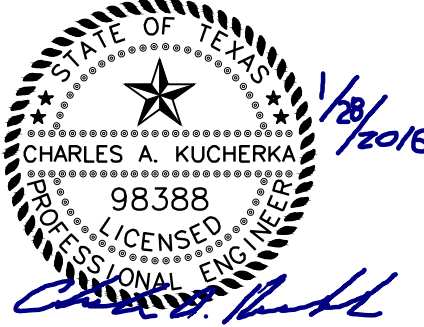
SHEET	W3
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- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BORING OPERATIONS. REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS TO THE ENGINEER.
 2. CONTRACTOR SHALL LOCATE BORE PITS AROUND EXISTING UTILITIES AND SUPPORT EXISTING UTILITIES AS REQUIRED TO CONSTRUCT THE BORE.
 3. ALL WORK WITHIN THE TXDOT ROW SHALL BE CONSISTENT WITH THE REQUIREMENTS IN THE TXDOT UTILITY PERMIT.
 4. GATEWAY GAS COMPANY MUST BE PRESENT FOR CONSTRUCTION AT CROSSING. CONTACT DOUG MOSS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AT (713) 600-1048 TO COORDINATE.
 5. CONTRACTOR SHALL ISOLATE EXISTING WATER LINE ON LAWSON STREET AND REMOVE AND REPLACE WATER LINE IN-PLACE. EXISTING WATER SERVICE SHALL BE MAINTAINED. CONTRACTOR MAY DO THIS BY PHASING CONSTRUCTION OR BY PROVIDING A TEMPORARY WATER SERVICE TAP AND CONNECTION. ANY TEMPORARY WATER SERVICE LINES SHALL BE BURIED (NSP). CONTRACTOR SHALL PROVIDE PLAN AS A SHOP DRAWING PRIOR TO CONSTRUCTION.
 6. PROVIDE TRENCH SECTION 1/DT-1 FOR WATER MAIN INSTALLED ALONG LAWSON STREET. ONLY PROVIDE ASPHALT TRENCH CAP WHERE ASPHALT CURRENTLY EXISTS.
 7. CONTRACTOR SHALL COORDINATE W/ UTILITY COMPANY FOR ALL WORK ASSOCIATED W/ UTILITY INFRASTRUCTURE.
 8. WORK ON TEXAS LUTHERAN UNIVERSITY PROPERTY SHALL BE CONSTRUCTED AFTER NOVEMBER 1, 2015.
 9. CONTRACTOR SHALL COORDINATE WITH UNIVERSITY STAFF FOR CONSTRUCTION AND FOLLOW ALL REQUIRED SECURITY AND REPORTING REQUIREMENTS.

CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
CIVIL
LAWSON PLAN AND PROFILE
STA. 10+00 TO STA. 15+00

FREESE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 298-3800
Fax - (210) 298-3801
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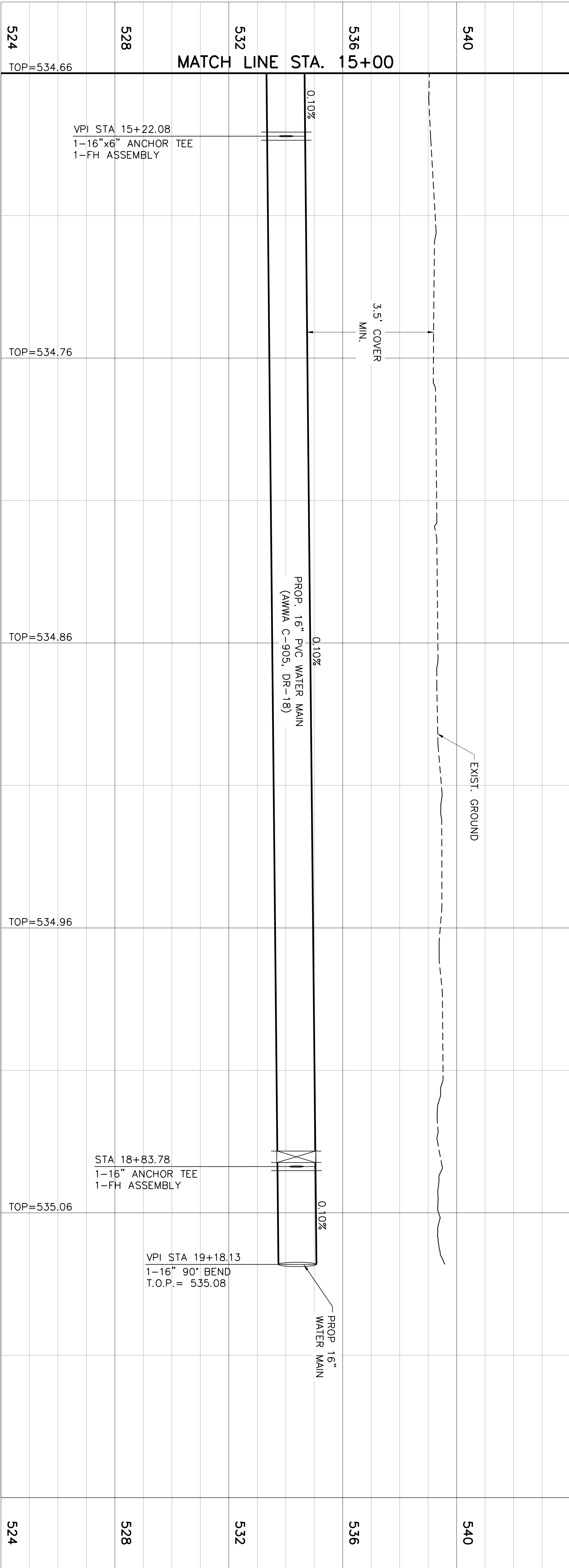


NO.	ISSUE	BY	DATE	F&N JOB NO.
1	ADDENDUM NO. 1	CAK	01/28/16	SEG14637
2	VERIFY SCALE			ERB

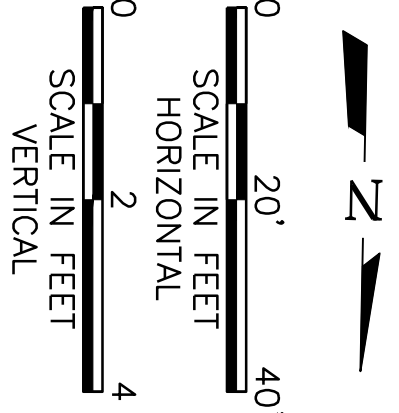
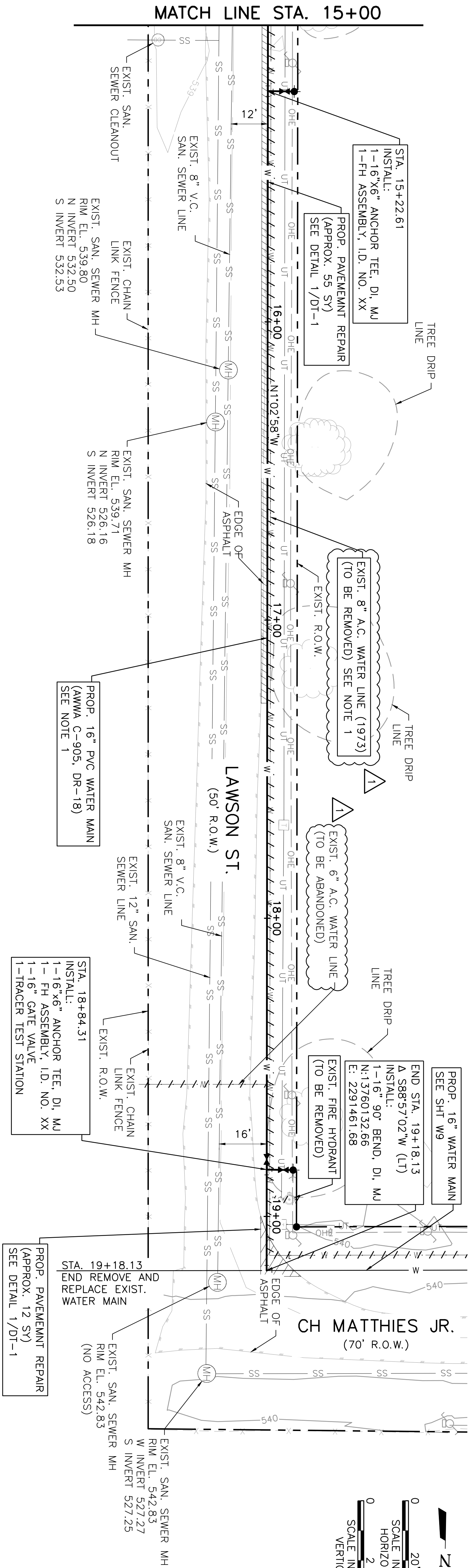
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- NOTES:**
- CONTRACTOR SHALL ISOLATE EXISTING WATER LINE ON LAWSON STREET AND REMOVE AND REPLACE WATER LINE IN PLACE.
 - PROVIDE TRENCH SECTION 1/DT-1 FOR WATER MAIN INSTALLED ALONG LAWSON STREET. ONLY PROVIDE ASPHALT TRENCH CAP WHERE ASPHALT CURRENTLY EXISTS.



SHEET W8	NO.	ISSUE	BY	DATE	F&N JOB NO.
	1	SEG14637			
	2	DATE 1/28/2016			
	3	DESIGNED CAK			
ADDENDUM NO. 1	4	DRAWN DDH			
	5	REVISION			
	6	CHECKED ERB			
	7	FILE NAME			

CITY OF SEGUIN

WALMART WATER MAIN EXTENSION

CIVIL

LAWSON PLAN AND PROFILE

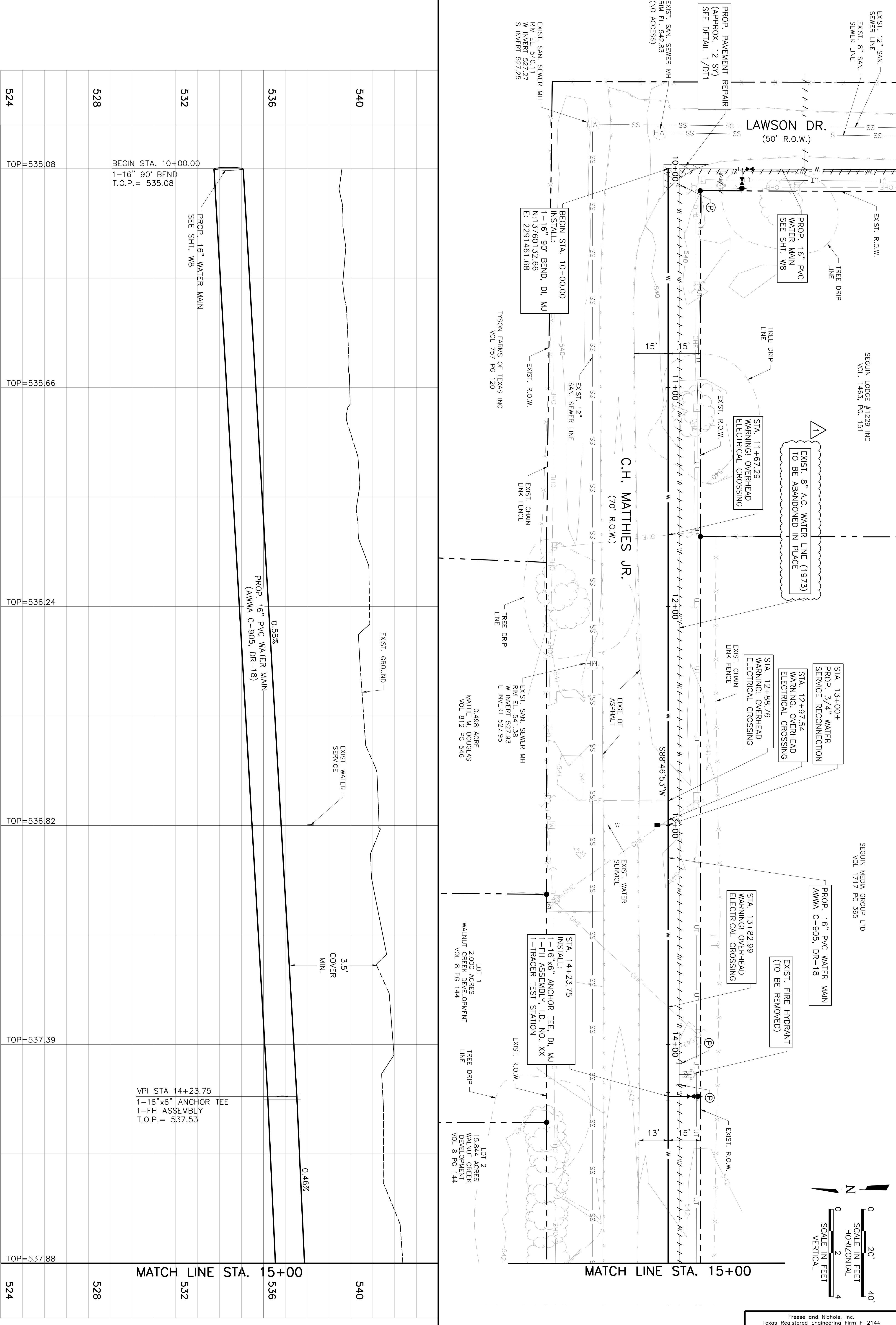
STA. 15+00 TO END

FREESSE & NICHOLS

4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 298-3800
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Freese and Nichols, Inc.
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Plot Date: 1/28/2016 3:00 PM Plot By: 02376 Filename: N:\WTU\Drawings\ERLBIRD-WL-PL01.dwg



NO.	ISSUE	BY	DATE	F&N JOB NO.
1	SEG14637			
2	DATE 1/28/2016			
3	DESIGNED CAK			
4	DRAWN DDH			
5	ADDENDUM NO. 1	CAK	01/28/16	REVISED
6	VERIFY SCALE			CHECKED ERB
7	0			FILE NAME
8				ERLBIRD-WL-PL01.dwg

CITY OF SEGUIN

WALMART WATER MAIN EXTENSION

CIVIL

C.H. MATTHIES PLAN AND PROFILE

STA. 10+00 TO STA. 15+00

FREESE & NICHOLS

4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 298-3800
Fax - (210) 298-3801
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Freese and Nichols, Inc.
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- NOTES:**
1. ALL WORK WITHIN THE TxDOT R.O.W. SHALL BE CONSISTENT WITH THE TxDOT PERMIT.
 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BORING OPERATIONS. REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS TO THE ENGINEER.
 3. CONTRACTOR SHALL LOCATE BORE PITS AROUND EXISTING UTILITIES AND SUPPORT EXISTING UTILITIES AS REQUIRED TO CONSTRUCT THE BORE.

CITY OF SEGUIN
VOL. 888, PG. 81

PROP. 12" x 140 LF PVC WATER MAIN
(AWMA C-900, DR-14 RESTRAINED)
ENCASED IN 20" STL. CASING (BORED)
REFER TO DETAIL 2/DT-3

PROP. SAN. SEWER MH
(BY OTHERS)
RIM EL. 530.45
FL EL. 522.11

PROP. 30" SAN. SEWER LINE
(BY OTHERS)

PROP. 16" WATER LINE
SEE SHIT. W4

PROP. 30" SAN. SEWER LINE WITHIN
48" STEEL CASING (BY OTHERS)

2.724 ACRES
CITY OF SEGUIN
VOL. 888, PG. 81

REMOVE AND REPLACE CONC.
BIKEWAY AS REQUIRED FOR
CONSTRUCTION (APPROX. 50 SY)
SEE DETAIL 1/DT-6

STA. 10+00.00
CONNECT TO PROP. 16" WATER LINE
1-16"x12" TEE, DI, MU
1-12" GATE VALVE, DI, MU
8 LF x 12" AWMA C-900, DR-14 PVC
N: 13759670.84
E: 2292495.90

PROP. 15'x30'
BORE PIT

PROP. 30" SAN.
SEWER LINE
(BY OTHERS)

STA. 10+24±
WARNING: OVERHEAD
ELECTRICAL CROSSING

EXIST SAN. SEWER MH
528 RIM EL. 525.94
FL. 520.54

EXIST. 16" REUSE
WATER LINE

ABANDON 485 LF OF EXIST.
6" WATER LINE IN PLACE
TO TEE AT PREXY DR.
FILL WITH FLOWABLE FILL
SEE DETAIL 1/W5

EXIST. SAN. SEWER MH
RIM EL. 535.84
FL. 523.68

EXIST SAN. SEWER MH
(BY OTHERS)

EXIST. 12" WATER LINE
SEE SHIT. W4

EXIST. 30" SAN. SEWER LINE WITHIN
48" STEEL CASING (BY OTHERS)

2.724 ACRES
CITY OF SEGUIN
VOL. 888, PG. 81

REMOVE AND REPLACE CONC.
BIKEWAY AS REQUIRED FOR
CONSTRUCTION (APPROX. 50 SY)
SEE DETAIL 1/DT-6

STA. 10+00.00
CONNECT TO PROP. 16" WATER LINE
1-16"x12" TEE, DI, MU
1-12" GATE VALVE, DI, MU
8 LF x 12" AWMA C-900, DR-14 PVC
N: 13759670.84
E: 2292495.90

PROP. 15'x30'
BORE PIT

PROP. 30" SAN.
SEWER LINE
(BY OTHERS)

STA. 10+24±
WARNING: OVERHEAD
ELECTRICAL CROSSING

EXIST SAN. SEWER MH
528 RIM EL. 525.94
FL. 520.54

EXIST. 16" REUSE
WATER LINE

EXIST. SAN. SEWER LINE
RIM EL. 535.84
FL. 523.68

EXIST SAN. SEWER MH
(BY OTHERS)

EXIST. 12" WATER LINE
SEE SHIT. W4

EXIST. 30" SAN. SEWER LINE WITHIN
48" STEEL CASING (BY OTHERS)

2.724 ACRES
CITY OF SEGUIN
VOL. 888, PG. 81

REMOVE AND REPLACE CONC.
BIKEWAY AS REQUIRED FOR
CONSTRUCTION (APPROX. 50 SY)
SEE DETAIL 1/DT-6

STA. 10+00.00
CONNECT TO PROP. 16" WATER LINE
1-16"x12" TEE, DI, MU
1-12" GATE VALVE, DI, MU
8 LF x 12" AWMA C-900, DR-14 PVC
N: 13759670.84
E: 2292495.90

PROP. 15'x30'
BORE PIT

PROP. 30" SAN.
SEWER LINE
(BY OTHERS)

STA. 10+24±
WARNING: OVERHEAD
ELECTRICAL CROSSING

EXIST SAN. SEWER MH
528 RIM EL. 525.94
FL. 520.54

EXIST. 16" REUSE
WATER LINE

CONNECT TO EXIST. 6" WATER LINE
1-8"x6" ANCHOR TEE
1-FH ASSEMBLY
1-8"x6" REDUCER, DI, MU
1-6" TRANSITION COUPLING
1-8" 90° BEND, DI, MU
1-8" GATE VALVE, MU
2-CONC. THRUST BLOCK
23 LF-CONC. CURB & GUTTER
1-TRACER TEST STATION
CONNECT TO EXIST. AND PROP. TRACER WIRES
N: 13759827.0±
E: 2292427.9±

EXIST. SAN. SEWER MH
RIM EL. 532.11
FL. 523.78

EXIST. 15" SAN.
SEWER LINE (1965)

EXIST. FIRE
HYDRANT (TO
BE REMOVED)

EXIST. 12" WATER LINE
SEE SHIT. W4

EXIST. 30" SAN. SEWER LINE WITHIN
48" STEEL CASING (BY OTHERS)

2.724 ACRES
CITY OF SEGUIN
VOL. 888, PG. 81

REMOVE AND REPLACE CONC.
BIKEWAY AS REQUIRED FOR
CONSTRUCTION (APPROX. 50 SY)
SEE DETAIL 1/DT-6

STA. 10+00.00
CONNECT TO PROP. 16" WATER LINE
1-16"x12" TEE, DI, MU
1-12" GATE VALVE, DI, MU
8 LF x 12" AWMA C-900, DR-14 PVC
N: 13759670.84
E: 2292495.90

PROP. 15'x30'
BORE PIT

PROP. 30" SAN.
SEWER LINE
(BY OTHERS)

STA. 10+24±
WARNING: OVERHEAD
ELECTRICAL CROSSING

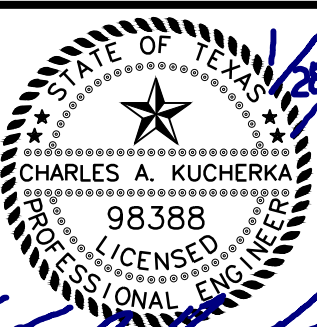
EXIST SAN. SEWER MH
528 RIM EL. 525.94
FL. 520.54

EXIST. 16" REUSE
WATER LINE

SCALE IN FEET
HORIZONTAL
0 20' 40'
SCALE IN FEET
VERTICAL
0 2 4

SCALE IN FEET
HORIZONTAL
0 20' 40'
SCALE IN FEET
VERTICAL
0 2 4

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



FREESE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 298-3800
Fax - (210) 298-3801
Web - www.freese.com

CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
CIVIL
ALDAMA PLAN AND PROFILE
KINGSBURY CROSSING

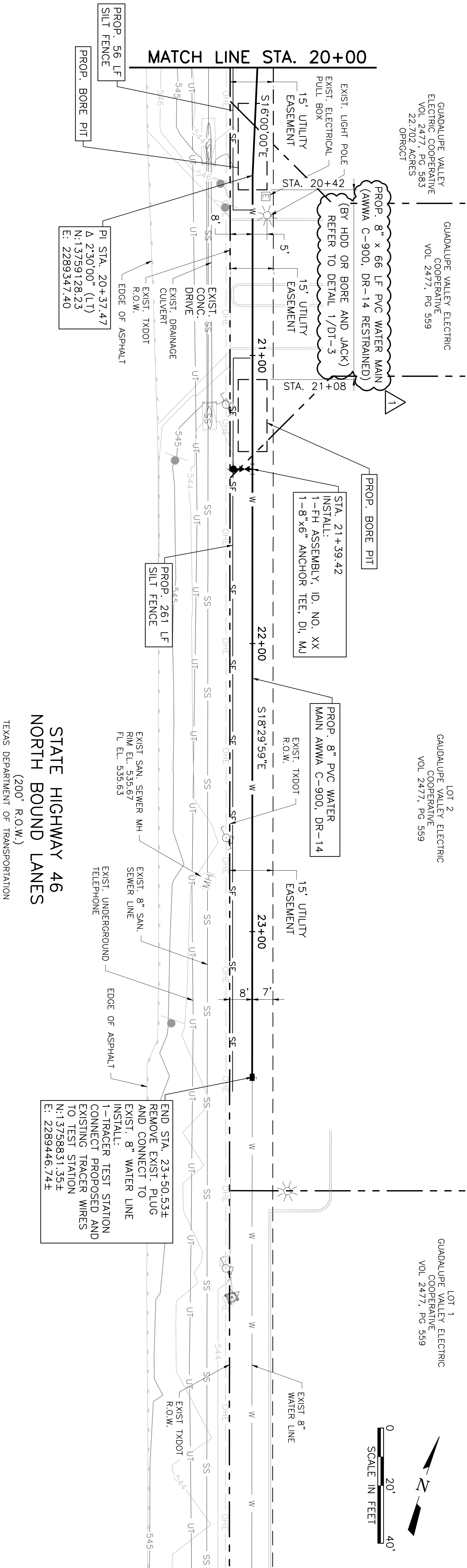
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DATE	1/28/2016
DESIGNED	CAK
DRAWN	DDH
REVIEWED	ERB
CHECKED	ERB
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NO.	ISSUE
1	ADDENDUM NO. 1
0	VERIFY SCALE

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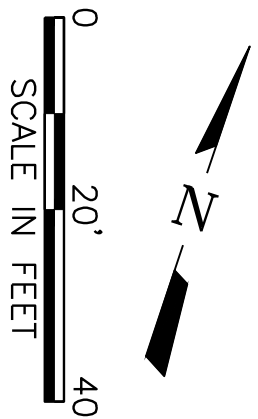
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SFO.	

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STATE HIGHWAY 46
NORTH BOUND LANES
(200' R.O.W.)
TEXAS DEPARTMENT OF TRANSPORTATION

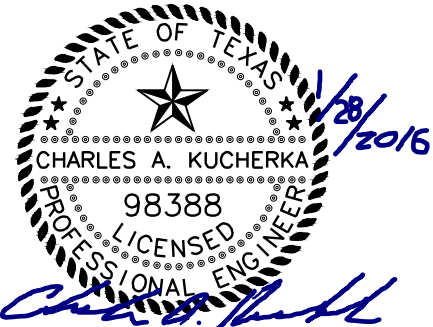
END STA. 23+50.53±
REMOVE EXIST. PLUG
AND CONNECT TO
EXIST. 8" WATER LINE
INSTALL:
1-TRACER TEST STATION
CONNECT PROPOSED AND
EXISTING TRACER WIRES
TO TEST STATION
N: 13758831.35±
E: 2289446.74±



CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
CIVIL
STATE HIGHWAY 46 PLAN VIEW
STA. 20+00 TO END

FREESE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 298-3800
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Web - www.freese.com

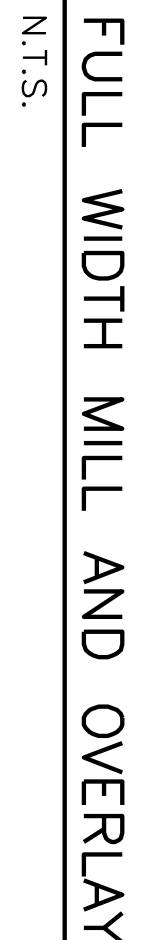
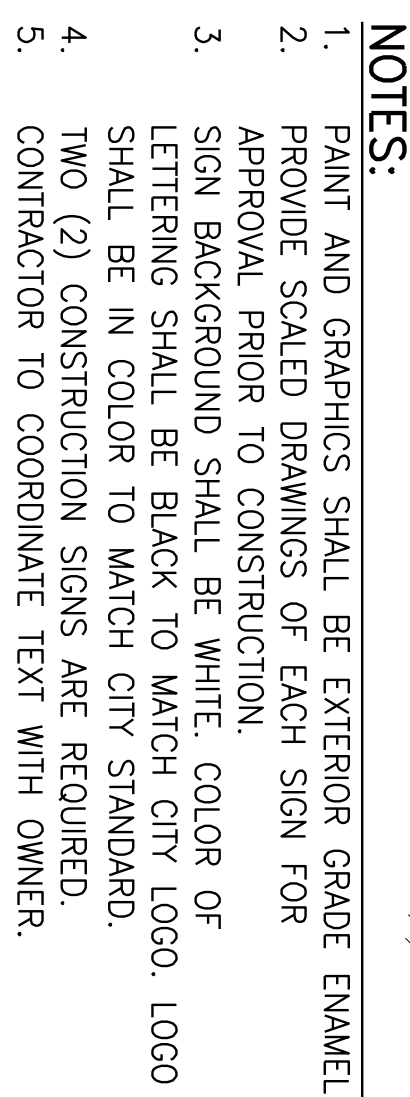
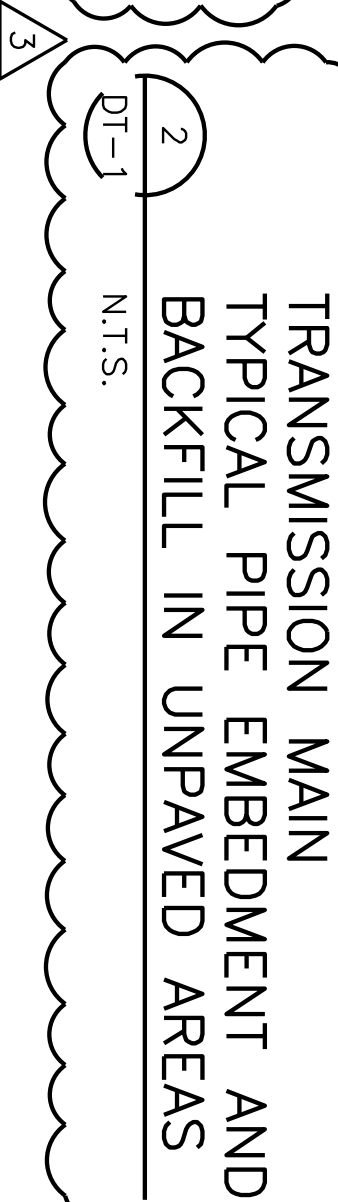
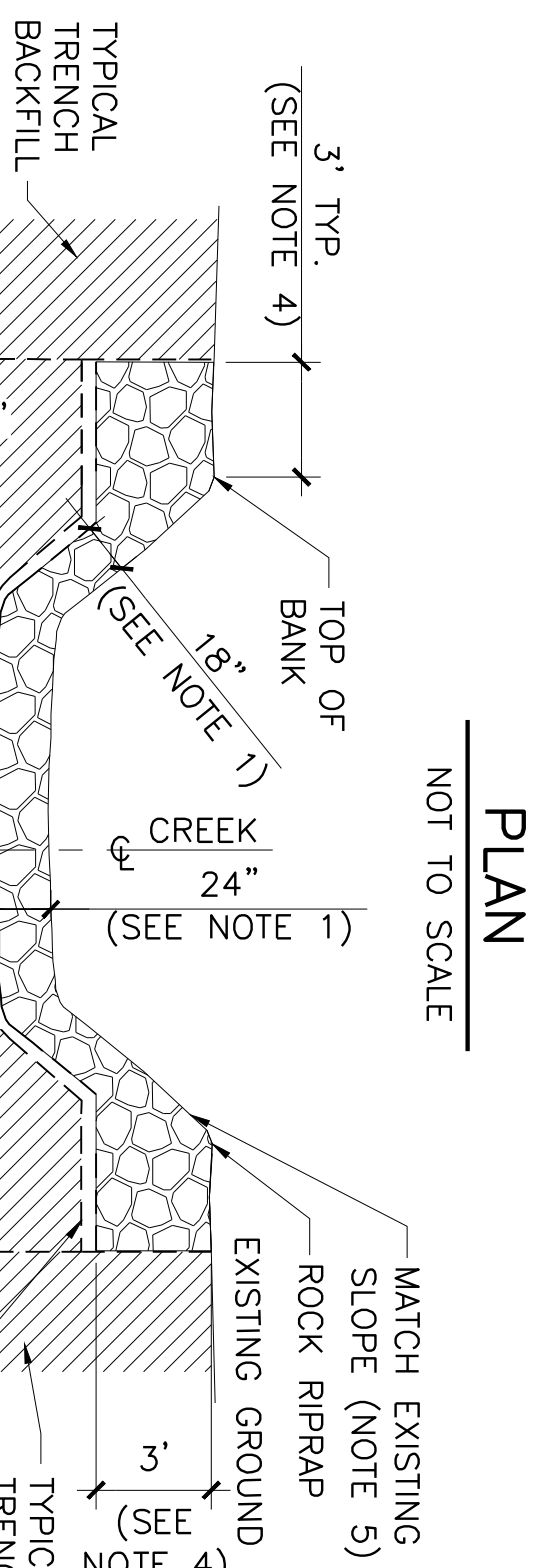
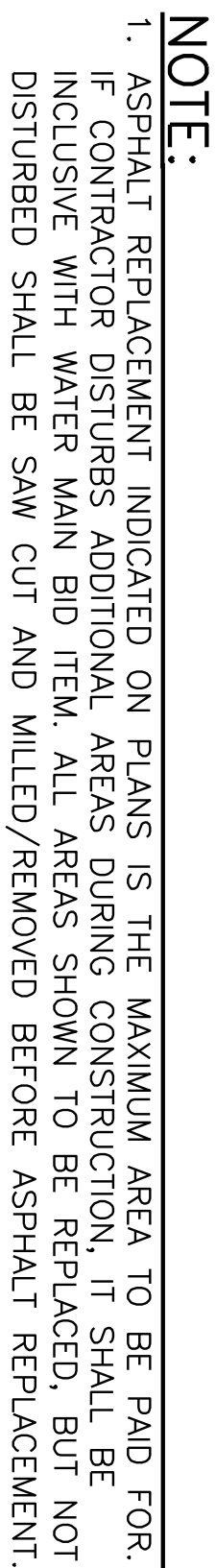
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NO.	ISSUE	BY	DATE	F&N JOB NO.
				SEG14637
				DATE 1/28/2016
				DESIGNED CAK
				DRAWN DDH
ADDENDUM NO. 1		CAK	01/28/16	REVISED
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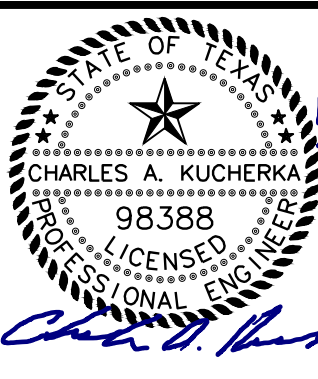
SHEET
W19

SFO:

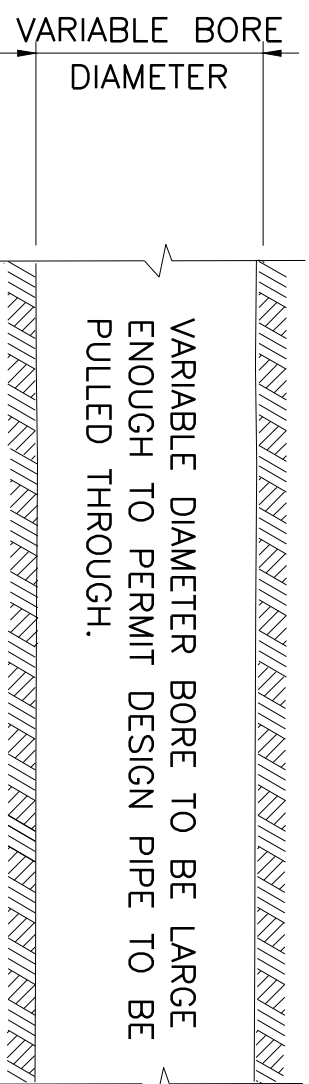


CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
GENERAL

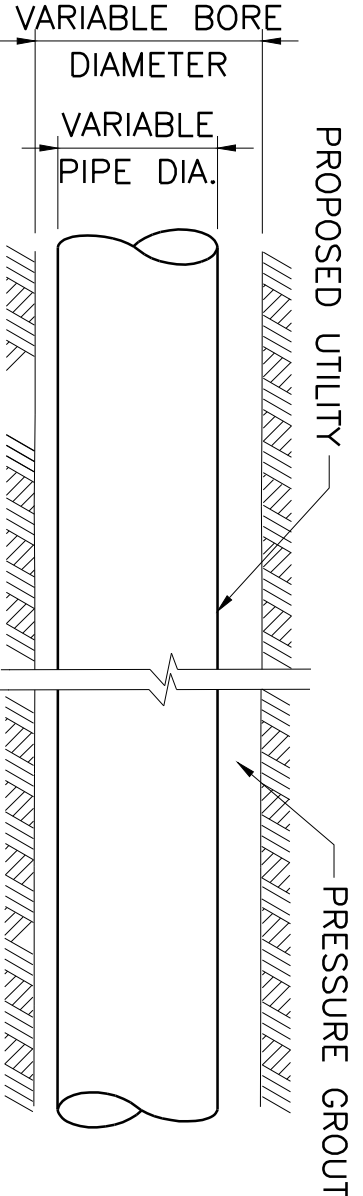
BEDDING AND BACKFILL DETAILS



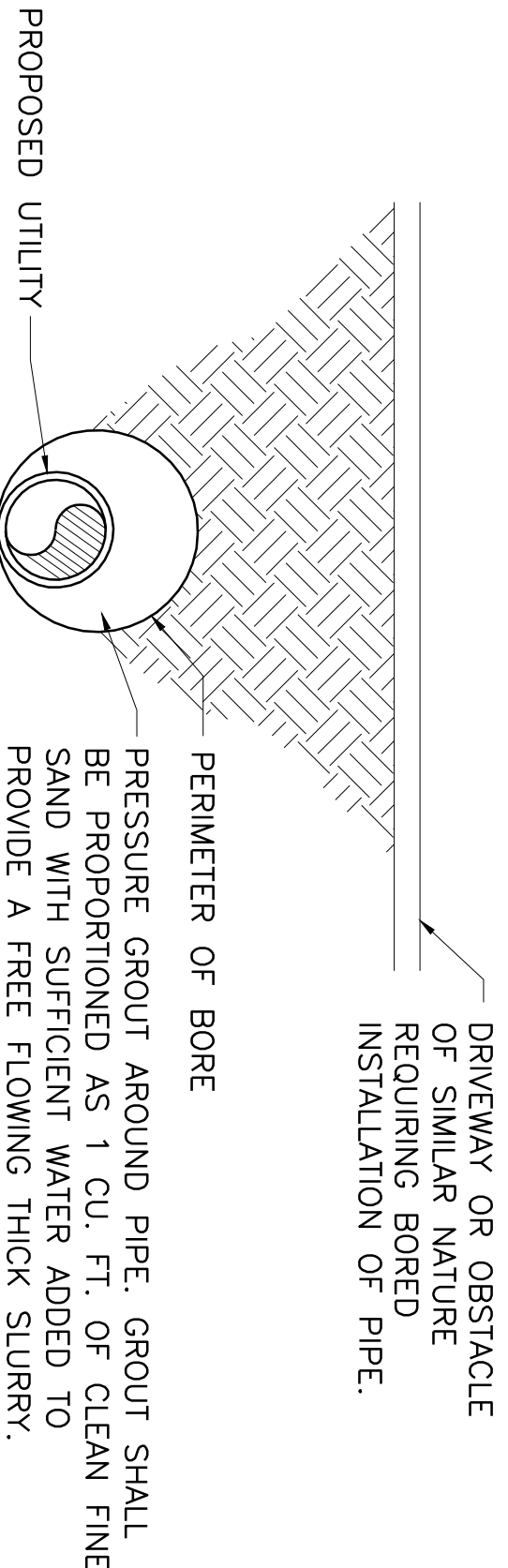
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TYPICAL BORED SECTION
LONGITUDINAL VIEW

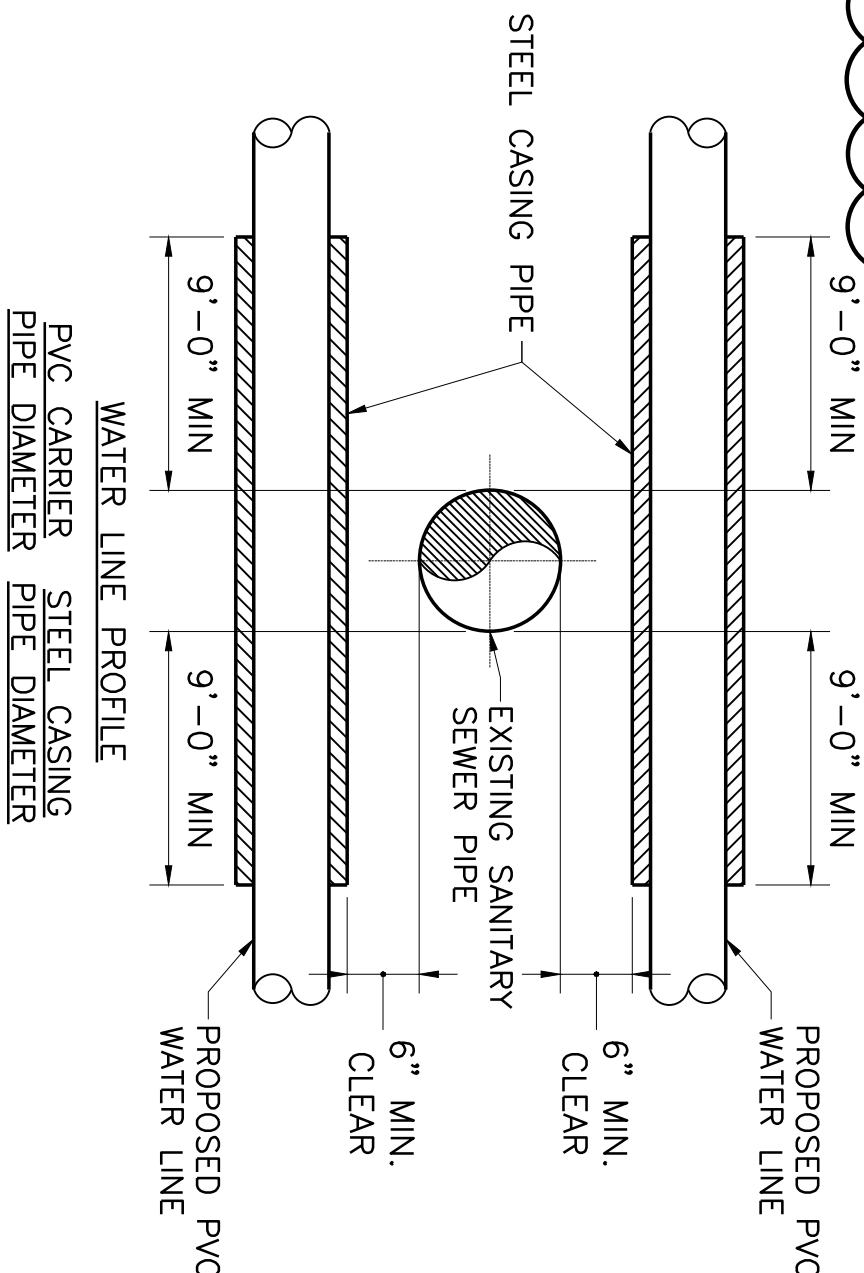


TYPICAL BORE WITH PIPE INSTALLED
LONGITUDINAL VIEW



TYPICAL END VIEW

1 PIPE BORE CROSSING DETAIL
DT-3 NOT TO SCALE

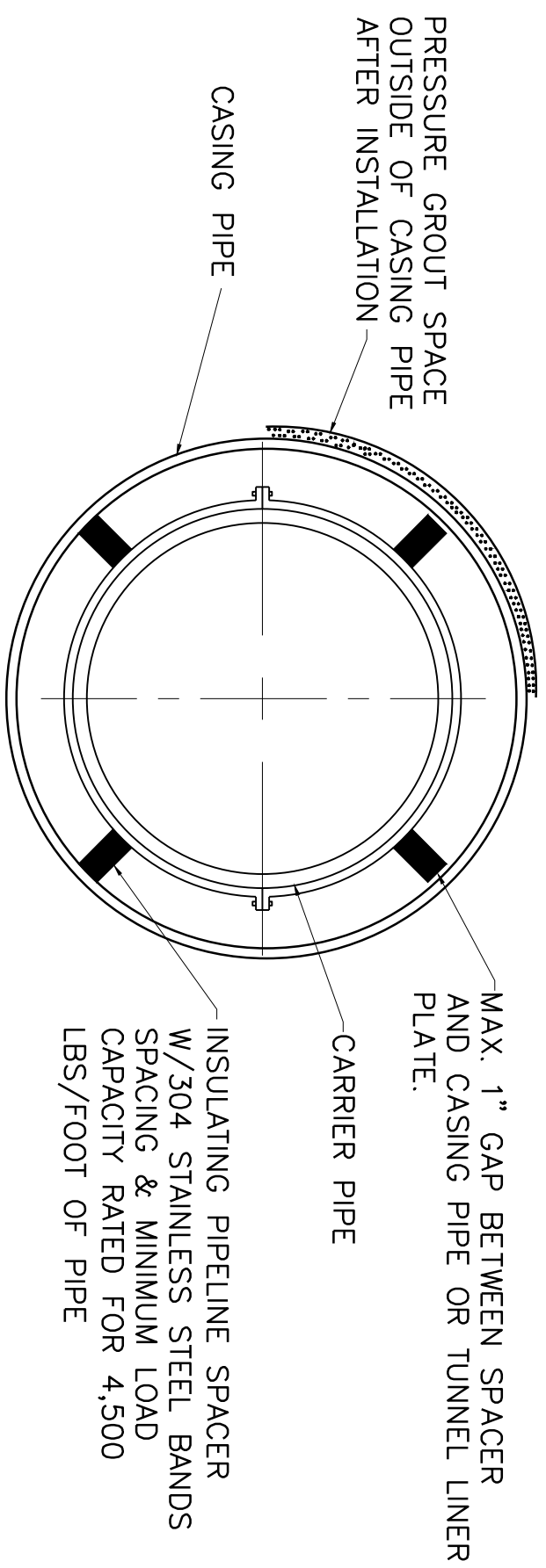


NOTES:

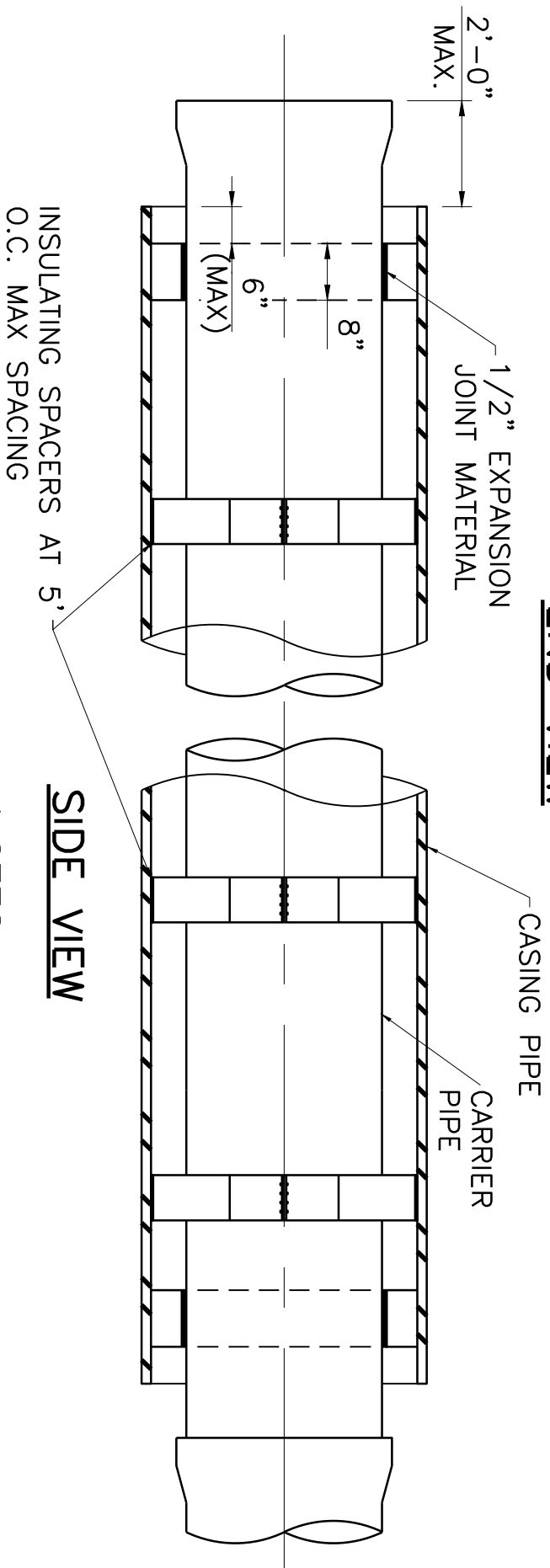
1. ALL WATER AND WASTEWATER CROSSINGS SHALL COMPLY WITH TCEQ CHAPTER 290.
2. CARRIER PIPE SHALL BE SUPPORTED AT 5-FOOT (OR LESS) INTERVALS WITH SPACERS.
3. EACH END OF THE CASING PIPE SHALL BE SEALED WITH WATER TIGHT NON-SHRINK GROUT OR A MANUFACTURED WATER TIGHT SEAL.
4. IF EXISTING SANITARY SEWER LINE IS DISTURBED, SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS WITH AT LEAST 150 PSI PRESSURE RATED PIPE. NEW SANITARY SEWER PIPE SHALL BE ENCASED WITH 2.5 SACK CEMENT STABILIZED SAND FOR THE LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END PER TCEQ CHAPTER 290.
5. CASING PIPE THICKNESS FOR ALL DIAMETERS SHALL BE 0.375-INCHES.

PROPOSED ENCASED WATER LINE CROSSING EXISTING SANITARY SEWER LINE DETAIL

N.T.S.



END VIEW



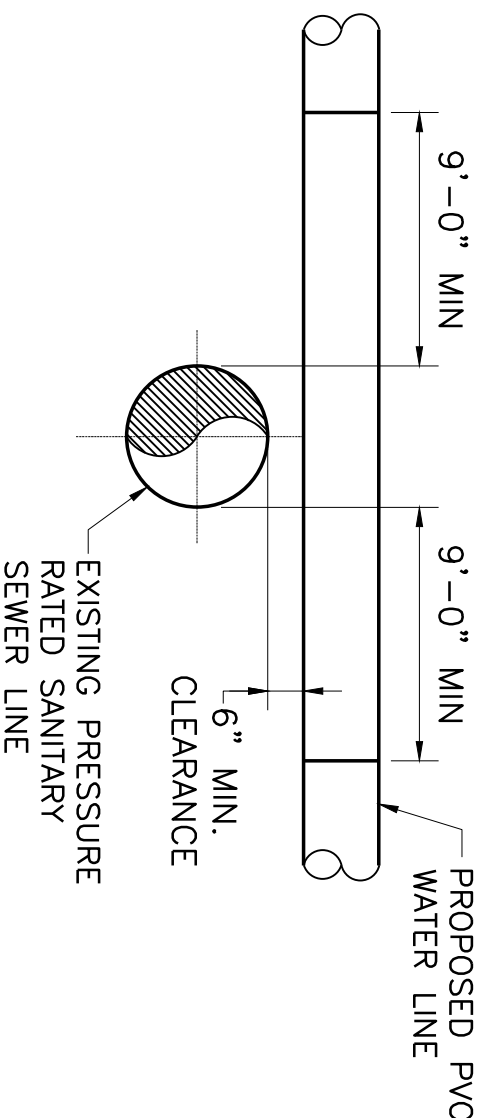
SIDE VIEW

NOTES:

1. FURNISH AND INSTALL APPROVED END SEAL AT EACH END OF TUNNEL.
2. CARRIER SHALL BE CENTERED AND RESTRAINED.

(FOR PVC CARRIER PIPE)
TYPICAL INSTALLATION IN CASING PIPE

DT-3 N.T.S.

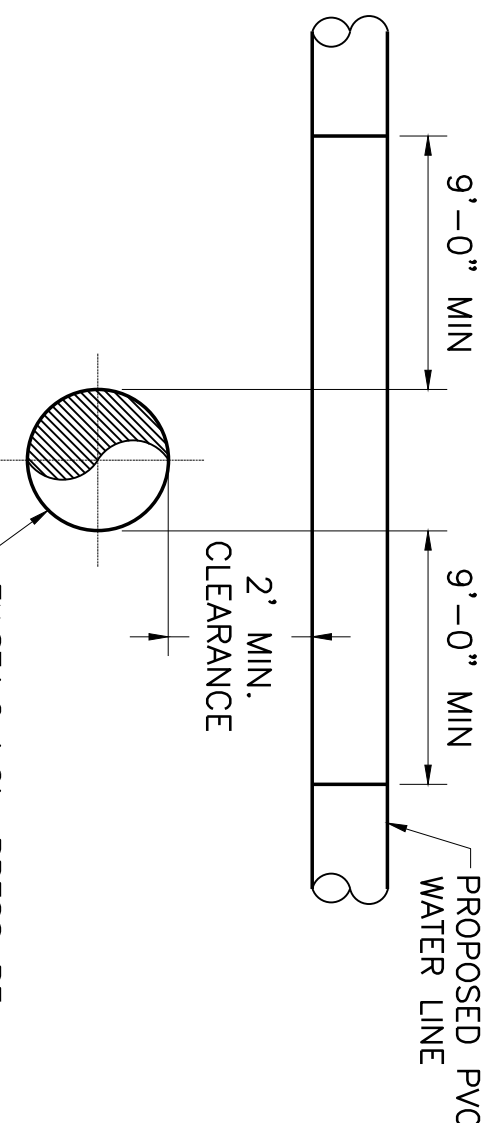


NOTES:

1. ALL WATER AND WASTEWATER CROSSINGS SHALL COMPLY WITH TCEQ CHAPTER 290.
2. IF EXISTING SANITARY SEWER LINE IS DISTURBED OR SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS WITH AT LEAST 150 PSI PRESSURE RATED PIPE. NEW SANITARY SEWER PIPE SHALL BE ENCASED WITH 2.5 SACK CEMENT STABILIZED SAND FOR THE LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END PER TCEQ CHAPTER 290.

PROPOSED WATER LINE CROSSING ABOVE PRESSURE RATED SANITARY SANITARY SEWER LINE DETAIL

N.T.S.



NOTES:

1. ALL WATER AND WASTEWATER CROSSINGS SHALL COMPLY WITH TCEQ CHAPTER 290.
2. IF EXISTING SANITARY SEWER LINE IS DISTURBED OR SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS WITH AT LEAST 150 PSI PRESSURE RATED PIPE. NEW SANITARY SEWER PIPE SHALL BE ENCASED WITH 2.5 SACK CEMENT STABILIZED SAND FOR THE LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END PER TCEQ CHAPTER 290.

PROPOSED WATER LINE CROSSING ABOVE NON-PRESSURE RATED SANITARY SEWER LINE DETAIL

N.T.S.

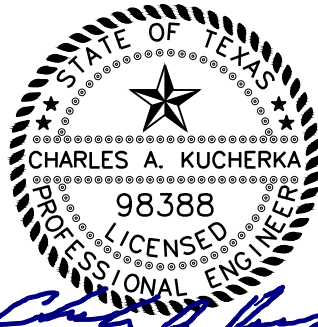
GENERAL NOTES:

1. ALL WATER AND WASTEWATER CROSSINGS SHALL BE CONSTRUCTED PER TCEQ CHAPTER 290 AND 217.
2. CONTRACTOR SHALL MAINTAIN 9' HORIZONTAL SEPARATION DISTANCE FROM ALL SANITARY SEWER LINES, SANITARY SEWER LATERALS AND MANHOLES.

CITY OF SEGUIN
WALMART WATER MAIN EXTENSION
STANDARD DETAILS
BORING AND CROSSING DETAILS



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



NO.	ISSUE	BY	DATE	F&N JOB NO.
				SEG14637
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				REVISED
				CHECKED CAK
FILE NAME	UT-RRT-DT-MISC05.dwg			
ADDENDUM NO. 1	CAK 01/28/16			
RBFCU IFC SET	CAK 7/1/2015			
VERIFY SCALE	1			

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

DT-3

SFO.